

Message Text

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SUBJECT: TRADE OPPORTUNITY - SECOND GAS COMPRESSOR FOR REFINERY

1. 485/01/P0003

2. 92375

3. H. CLARKE

4. 485 ROMANIA

5. Y. GOVERNMENT FOREIGN TRADE ORGANIZATION

6A. REPLY TO --

6B. MR. REMUS IVAN

6C. INDUSTRIALEXPORT, STR. CONSTANTIN MILLE 10, BUCHAREST,
ROMANIA

7. TELEX 011-407; PHONE 13-22-60

8. --

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9. 104

9A. BID REQUEST BY ROMANIAN FOREIGN TRADE ORGANIZATION
INDUSTRIALEXPORT

10. DESCRIPTION

3563141 - HEAVY DUTY, HORIZONTAL, MULTI-IMPELLER, BARRELL TYPE, GAS RECYCLING COMPRESSOR. PROCESS REQUIREMENTS: MMSCFD AT 14.7 PSIA AND 60 GRADE F - 130.0; CFM AT SUCTION CONDITIONS - 12,430; SUCTION TEMPERATURE - 100 GRADE F; SUCTION PRESSURE, PSIA - 115; DISCHARGE PRESSURE, PSIA - 182; COMPRESSION RATIO - 1.583; APPROXIMATE CP/CV (AT SUCTION) - 1.285; COMPRESSIBILITY FACTOR (AT SUCTION) - 1.00; WEIGHT FLOW LB./MINUTE - 2280; ESTIMATED POLYTROPIC HEAD, FT.LB./LB.-44,360; ESTIMATED BHP REQUIRED - 4095; ESTIMATED GEAR LOSS - NONE. THE APPROXIMATE GAS COMPOSITION IN PERCENTS IS: TRACE OF WATER VAPOR; 80.37 - HYDROGEN; 4.44 - METHANE; 5.72 - ETHANE; 4.17 - PROPANE; 2.56 - I-BUTANE AND N-BUTANE; 1.18 - I-PENTANE AND N-PENTANE; 1.56 - HEXANE. THE CONSTRUCTION MATERIALS ARE: STEEL FOR CASING; CAST IRON FOR DIAPHRAGMS; AISI 4130 OR SIMILAR FOR IMPELLERS AND FORGED STEEL FOR SHAFT SLEEVES. THE COMPRESSOR SHOULD BE FITTED OUT WITH TWO STEAM TURBINES AND TWO ELECTRIC MOTORS. STEAM CONDITIONS FOR THE MAIN COMPRESSOR DRIVING TURBINE: AT THROTTLE (SYSTEM SAFETY VALVE SET PRESS) - 597 PSIG AND 680 GRADE F; NORMAL - 555 PSIG AND 662 GRADE F; MINIMUM - 525 PSIG AND 644 GRADE F. AT EXHAUST (TURBINE VALVE SET PRESS) - 78 PSIG; NORMAL - 71 PSIG; MINIMUM - 64 PSIG. STEAM CONDITIONS FOR THE OIL PUMP DRIVING TURBINE: AT THROTTLE (SYSTEM SAFETY SET PRESS) - 220 PSIG AND 455 GRADE F; NORMAL - 185 PSIG AND 428 GRADE F; MINIMUM - 171 PSIG AND 392 GRADE F. AT EXHAUST (TURBINE SAFETY SET PRESS) - 78 PSIG; NORMAL - 71 PSIG; MINIMUM - 64 PSIG. CHARACTERISTICS OF THE TWO 3-PHASE, 50-CYCLE ELECTRIC MOTORS: (1) 380 VOLTS, 0.5-132 KW; (2) 6000 VOLT, 133 KW AND ABOVE. THE VENDOR IS EXPECTED TO RECOMMEND THE SPEED OF THE COMPRESSOR, THE CONSTRUCTION MATERIAL FOR THE LABYRINTHS OF THE COMPRESSOR, ALL NECESSARY SPARE PARTS AND THE MEANS BY WHICH THE COMPRESSOR CAN BE USED FROM TIME TO TIME TO REGENERATE THE CATALYST. IN THIS LATTER OPERATION THE MOLECULAR WEIGHT OF THE GAS WILL BE OF CCA 30, THE GAS WILL CONTAIN NITROGEN, UNCLASSIFIED

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CO2 AND UP TO 5 MOLECULAR PERCENT OXYGEN; THE SUCTION PRESSURE WOULD BE CCA 30 PSIA. INDUSTRIALEXPORT EXPECTS CONCRETE OFFERS FOR THIS AND TWO OTHER COMPRESSORS IN EARLY OCTOBER.

11. BACKGROUND: FTO INDUSTRIALEXPORT HAS SIGNED A CONTRACT WITH SYRIA TO BUILD A 6 MILLION TON PETROLEUM REFINERY IN BANIAS (NORTHER SYRIA) UNDER AMERICAN UOP LICENSE. IN ADDITION TO EQUIPMENT AND MACHINERY MANUFACTURED IN ROMANIA,

INDUSTRIALEXPORT WILL IMPORT COMPLEMENTARY MACHINERY INCLUDING COMPRESSORS, MIXERS, ELECTRIC HEATERS, FILTERS, DUST COLLECTORS, SEPARATORS, PURIFICATION UNITS AND AIR DRYERS. THE ESTIMATED VALUE OF THESE IMPORTS IS 30-40 MILLION DOLLARS. THE REFINERY IS SUPPOSED TO GO ON STREAM IN 1977. THE IMPORTS WILL BE MADE STARTING WITH THE FOURTH QUARTERS OF 1975 UNTIL THE FIRST QUARTERS OF 1977. THE ROMANIAN-SYRIAN CONTRACT ANTICIPATES THA THE REFINERY WILL BE ENLARGED AFTER 1977, WHICH WOULD GIVE AMERICAN COMPANIES FURTHER SALE OPPORTUNITIES.
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